INDEX

DOKLADY BIOCHEMISTRY

Volumes 166-171, 1966

EU-401X

DOKLADY BIOCHEMISTRY
Volumes 166-171, 1966

(A Translation of Doklady Akademii Nauk SSR)

A

Afanas'ev, P. V. - 383
Agafonova, I. M. - 184
Agatova, A. I. - 321
Akulova, E. A. - 145, 277
Akulovich, N. K. - 120, 270
Andreeva, N. A. - 127, 173
Areshkina, L. Ya. - 131, 231
Arnautova, A. I. - 90
Artamkina, I. Yu. - 49
Asadullaev, T. A. - 249
Aseeva, K. B. - 243

B

Baev, A. A. - 38, 308
Baklagina, Yu. G. - 233
Balandin, A. A. - 201
Baranova, V. Z. - 5
Barkan, I. N. - 101
Baryshnikov, I. A. - 205
Bekina, R. M. - 83
Belavtseva, E. M. - 16
Belozerskii, A. N. - 366
Bendetskii, K. M. - 387
Berezin, I. V. - 411
Beridze, T. G. - 52, 246
Bezinger, É. N. - 28, 240
Bistritskaite, G. B. - 191
Blok, L. N. - 98
Bogdanov, G. N. - 222
Borkhsenius, S. N. - 16
Brazhnikova, M. G. - 176
Brestkin, A. P. - 152
Brik, I. L. - 152
Budovskii, É. I. - 408
Bukrinskaya, A. G. - 249
Burduchea, O. - 249
Burlakova, E. B. - 266
Butenko, Z. A. - 252
Bykhovskii, V. Ya. - 219
Bystrova, M. I. - 109

C

Cherkashina, N. A. - 52, 246
Cherkasov, I. A. - 343
Chernikov, M. P. - 355
Chevpilo, I. A. - 1
Chibrikin, V. M. - 35, 80
Chigirev, V. S. - 240
Chkanikova, R. A. - 121
Chumikina, L. V. - 59, 113

D

Davydova, M. A. - 399
Deborin, G. A. - 5
Debov, S. A. - 87
Demin, N. N. - 56, 340
Demina, A. S. - 105
Denisova, S. I. - 363
Domash, V. I. - 270
Dontsova, G. V. - 73
Dronova, L. M. - 222

E

Efimova, R. I. - 127, 173
Elin, É. A. - 143
Émanuél, N. M. - 35, 80, 222, 266
Emirbekov, E. Z. - 133
Ermokhina, T. M. - 366
Esipova, N. G. - 180
Evdokimov, Yu. M. - 370
Evstigneeva, Z. G. - 243

F

Farshatov, M. N. - 210
Favorova, O. O. - 404
Fedorchenko, E. Ya. - 1
Fen-Yui-Tsyan, - 391
Filippov, V. D. - 283
Filippova, R. L. - 281
Filippovich, I. L. - 337
Fradkin, L. I. - 121

G

Geiko, N. S. - 201
Gershenovich, Z. S. - 133, 184
Giller, Yu. E. - 402
Gilyazetdinov, Sh. Ya. - 20
Gitel'man, A. K. - 249
Glebov, Yu. I. - 210
Glemzha, A. A. - 45
Godnev, T. N. - 90, 270, 300
Gofshtein, L. V. - 136
Grechko, V. V. - 404
Grigorovich, N. A. - 139, 260
Gryaznova, I. M. - 167
Gulyi, M. F. - 1
Gumilevskaya, N. A. - 59, 113
Gurevich, A. A. - 257
Gurinovich, G. P. - 315
Gvardiyan, V. N. - 300

I

Il'in, G. S. - 236
Il'yashenko, B. N. - 293
Iordanskii, A. B. - 156
Ivanov, I. I. - 210
Ivanova, I. D. - 191
Ivanova, I. I. - 205
Ivanova, T. M. - 399

K

Kagan, Z. S. - 9, 42
Kalmanson, A. É. - 340
Karyakina, T. I. - 325, 377
Kaverzneva, E. D. - 343
Kazakova, T. B. - 194
Kharitonenkov, I. G. - 340
Khodasevich, É. V. - 90
Khokhlova, L. P. - 353
Kholopov, A. V. - 63
Khrapova, N. G. - 266
Kiselev, L. L. - 180, 304, 404
Kiselev, N. A. - 69
Kislina, O. S. - 207
Kivman, G. Ya. - 374
Klochko, É. V. - 35, 80
Kochetkov, G. A. - 213
Kogan, Leonid M. - 143
Kolesnikov, P. A. - 346
Kolomiitseva, G. Ya. - 411
Kolotova, L. R. - 402
Konarev, V. G. - 20
Kondrashov, Yu. D. - 233
Kondrat'eva, E. N. - 120
Konovalova, N. P. - 222
Korotkin, Yu. S. - 161
Krasil'nikov, N. A. - 363

Krasnovskii, A. A. - 109, 273
Kravchenko, N. A. - 343
Kretovich, V. L. - 105, 198, 201, 243, 325, 377
Krichevskaya, A. A. - 184
Kruglyak, E. B. - 176
Kruglyakova, K. E. - 35, 80, 312
Krutilina, A. I. - 308
Kuimova, T. F. - 363
Kukhanova, M. K. - 304
Kulaev, I. S. - 286, 391
Kurganov, B. I. - 321
Kuritsina, G. A. - 391
Kutseva, L. S. - 131, 231
Kutyurin, V. M. - 49, 260
Kuvaeva, E. B. - 59, 113

L

Leashov, A. V. - 411
Lebedeva, S. B. - 117
Levchenko, L. A. - 422
Levin, F. B. - 225
Lisovskaya, N. P. - 263
Logvinenko, E. M. - 296
Lushnikova, E. V. - 92
Lutovinova, G. F. - 213
Lyubimova, N. V. - 325, 377

M

Maleina, A. A. - 9
Mantrova, G. V. - 219
Markosyan, K. A. - 194
Markovich, D. S. - 335
Martinek, K. - 411
Marutyan, S. A. - 415
Matusevich, L. I. - 1
Matuska, G. Kh. - 1
Matveeva, A. A. - 222
Matveeva, I. V. - 49
Matyushina, E. D- 156
Mazurov, V. I. - 32
Medvedev, A. I. - 198
Mekhanik, M. L. - 366
Men'shkov, G. P. - 363
Mezentsev, A. S. - 176
Mikhailova, E. S. - 83
Mil'man, L. S. - 360
Mirzabekov, A. D. - 308
Mistakopulo, N. F. - 101
Molchanov, M. I. - 28
Morozova, T. M. - 167
Moskvitina, T. A. - 408
Mosolov, V. V. - 92
Mosolova, I. M. - 83
Mukhin, E. N. - 145, 277
Mutuskin, A. A. - 346

N

Nechaeva, G. A. - 56
Neifakh, A. A. - 73, 380
Neronova, A. N. - 377
Nikolaeva, N. V. - 149, 312
Nikol'shaya, I. I. - 207
Nilova, N. S. - 23
Novikova, M. A. - 77
Novitskaya, G. V. - 333

O

Odintsova, M. S. - 52, 246
Okorokov, L. A. - 391
Orekhovich, V. N. - 32
Oreshnikova, N. A. - 77
Orlovskaya, K. I. - 270

P

Pakshina, E. V. - 109
Panteleeva, N. S. - 161
Parshin, A. N. - 117
Pechenova, T. N. - 1
Peruanskii, Yu. V. - 290
Petrova, A. N. - 281
Pikhelgas, V. Ya. - 263, 419
Poglazov, B. F. - 16
Polkovnikov, B. D. - 201
Polyanovskii, O. L. - 26, 419
Porfir'eva, R. P. - 374
Poznaskaya, A. A. - 216
Pronina, Z. V. - 1
Pshenova, K. V. - 346

R

Rotfarb, R. M. - 300
Rubin, B. A. - 399
Rudakov, V. V. - 205
Rumer, Yu. B. - 165
Run'kovskaya, N. G. - 290

S

Saakov, V. S. - 349
Safonov, V. I. - 136
Sagal, A. A. - 152
Sakharova, N. K. - 404
Salganik, R. I. - 167
Sapozhnikov, D. I. - 402
Sapozhnikova, I. M. - 273
Saprin, A. N. - 35, 80
Sayanova, V. V. - 187
Sedykh, N. V. - 353
Semenova, L. P. - 149, 312
Serebrovskaya, K. B. - 95
Sergeev, A. V. - 173
Sevchenko, A. N. - 315
Severin, S. E. - 12, 45
Shavlovskii, G. M. - 296
Shestakov, S. V. - 283
Shlyk, A. A. - 121
Shpikiter, V. O. - 255
Shpitsberg, V. L. - 69
Shtol'ko, V. N. - 266
Shul'ga, A. M. - 315
Shul'mina, A. I. - 383
Shuppe, N. G. - 318
Silonova, G. V. - 263
Sisakyan, N. M. - 28, 52, 59, 83, 113, 136, 240, 246, 337
Skolysheva, L. K. - 12
Skorik, V. I. - 210
Skorobogatova, E. P. - 131, 231
Solov'ev, V. P. - 260
Sotnikova, L. E. - 63
Spryshkova, R. A. - 216
Stan, E. Ya. - 355
Sukhover, L. K. - 121
Svetailo, É. N. - 337
Syrtsova, L. A. - 395

T

Taber, A. M. - 201
Taranenko, A. G. - 205
Tashpulatov, R. Yu. - 293
Tikhonenko, T. I. - 207
Timashov, N. D. - 328
Todorov, I. N. - 98
Trubachev, I. N. - 257
Tsenova, M. P. - 201
Tumanyan, V. G. - 63, 180
Tyuterev, S. L. - 20
Tyutyukova, V. A. - 176

U

Ulanov, B. P. - 293
Urbakh, V. Yu. - 156
Urbanek, Kh. - 286
Uspenskaya, V. É. - 120

V

Vainshtein, B. K. - 69
Varshavskii, Ya. M. - 370
Vasil'chenko, V. N. - 98
Vasil'eva, L. S. - 222
Vasil'eva, N. V. - 95
Venkstern, T. V. - 38, 358
Vereshchagin, A. G. - 333
Viktorova, L. N. - 255
Vol'kenshtein, M. V. - 233, 335
Vorob'ev, L. V. - 395
Vorotnitskaya, N. E. - 26
Votrin, I. I. - 87
Vul'fson, P. L. - 12

Y

Yakovlev, V. A. - 395, 422
Yakovleva, V. I. - 105
Yurovitskii, Yu. G. - 360

Z

Zaitseva, G. N. - 366
Zaitseva, N. I. - 219
Zarembskii, R. A. - 210
Zavil'gel'skii, G. B. - 38
Zavodskii, P. - 335
Zhdanov, G. L. - 77
Zhukova, I. G. - 5
Zhuravskii, N. I. - 1
Zubok, L. P. - 42

DOKLADY BIOCHEMISTRY

A translation of the Biochemistry Section of *Doklady Akademii Nauk SSSR*

Volume 166, Numbers 1-6 **January-February, 1966**

CONTENTS

	Engl.	Russ.
Activation of Amino Acids with Formation of Aminoacyl Phosphates in Animal Tissues —M. F. Gulyi, E. Ya. Fedorchenko, T. N. Pechenova, L. I. Matusevich, I. A. Chevpilo, Z. V. Pronina, N. I. Zhuravskii, and G. Kh. Matuska	1	227
Study of Surface Films of the Lipoprotein Complex of M. lysodeikticus Membranes —G. A. Deborin, V. Z. Baranova, and I. G. Zhukova	5	231
Biosynthesis of Valine and Isoleucine from Their Keto and Dihydroxy Analogs in Corn Leaves and Roots—Z. S. Kagan and A. A. Maleina	9	235
Effect of Imidazole and Acetylimidazole on the Properties of Phosphorylase b —S. E. Severin, P. L. Vul'fson, and L. K. Skolysheva	12	238
Initial Stages of Aggregation of Phage T2 Tail Sheaths—S. N. Borkhsenius, E. M. Belavtseva, and B. F. Poglazov	16	476
Labile and Metabolically Active DNA—V. G. Konarev, Sh. Ya. Gilyazetdinov, and S. L. Tyuterev	20	480
Ammonia and the GABA Transaminase Activity of Brain Tissue—N. S. Nilova	23	483
Amino Acid Sequence of a Tetrapeptide Fragment from the Active Center of Pigeon Breast Muscle Inhibitors of Aspartate Transaminase—O. L. Polyanovskii and N. E. Vorotnitskaya	26	486
Biosynthesis of Protein and Nucleic Acids in Bean Chloroplast Lamellae—É. N. Bezinger, M. I. Molchanov, and N. M. Sisakyan	28	738
Unusual Effect of Actinomycin on Collagen Synthesis in Chick Embryo Cartilaginous Tissue —V. I. Mazurov and V. N. Orekhovich	32	742
Effect of Inhibitors of Free-Radical Reactions on the Kinetics of Change in the Content of Free Radicals in the Organs of Mice Suffering from Experimental Leukosis —A. N. Saprin, É. V. Klochko, K. E. Kruglyakova, V. M. Chibrikin, and N. M. Émanuél	35	746
Circular Dichroism and Nucleotide Sequence of Nucleic Acids—G. B. Zavil'gel'skii, T. V. Venkstern, and A. A. Baev	38	978
Evolution of the Catalytic Function of the Glutamate Oxidase System —L. P. Zubok and Z. S. Kagan	42	982
Mechanism of Inhibition of Lipoyl Dehydrogenase by Imidazole —S. E. Severin and A. A. Glemzha	45	986
Exchange of Hydrogen Atoms of the Carbocyclic Ring of Chlorophyll—V. M. Kutyurin, I. V. Matveeva, and I. Yu. Artamkina	49	1233
Participation of Nucleic Acids in the Process of Biosynthesis of Chlorophyll—T. G. Beridze, M. S. Odintsova, N. A. Cherkashina, and N. M. Sisakyan	52	1454
Effect of Acetylcholine on the Ribonuclease Activity of Cerbral Cortical Tissue —N. N. Demin and G. A. Nechaeva	56	1458
Isolation and Properties of the Ribosomes and Microsomes of Bombyx mori L. Pupae During Metamorphosis—E. B. Kuvaeva, N. A. Gumilevskaya, L. V. Chumikina, and N. M. Sisakyan	59	1461

	Engl.	Russ.
Elucidation of Secondary Structure of RNA from the Nucleotide Sequence —V. G. Tumanyan, L. E. Sotnikova, and A. V. Kholopov	63	1465

Volume 167, Numbers 1-6 March-April, 1966

Crystallization of Catalase in the Form of Tubes with Monomolecular Walls —B. K. Vainshtein, N. A. Kiselev, and V. L. Shpitsberg	69	212
Effect of Inhibitors on the Activity of Cytochrome Oxidase in Early Stages of Development of Sea Urchin Embryos—G. V. Dontsova and A. A. Neifakh	73	215
Some Biochemical Peculiarities of Jensen Sarcoma with Aquired Resistance to Sarcolysin —N. A. Oreshnikova, M. A. Novikova, and G. L. Zhdanov	77	219
Kinetics of Change in Free-Radical Content of Organs of Mice Suffering from Experimental Leucosis—A. N. Saprin, E. V. Klochko, K. E. Kruglyakova, V. M. Chibrikin, and N. M. Émanuél'	80	222
Activating Effect of ATP on the Process of Uptake of O_2 by Illuminated Chloroplasts —R. M. Bekina, E. S. Mikhailova, L. M. Mosolova, and Academician N. M. Sisakyan	83	444
Dynamics of RNA Synthesis by Partially Purified Rat-Liver RNA Polymerase—I. I. Votrin and S. S. Debov	87	448
Biosynthesis of Pigments in Lichens and Overwintering Plants at Subzero Temperatures —T. N. Godnev, É. V. Khodasevich, and A. L. Arnautova	90	451
Effect of Surface-Active Substances on the Enzymatic Activity of Trypsin, Acetyltrypsin, and Succinyltrypsin—V. V. Mosolov and E. V. Lushnikova	92	454
Effect of Proteins on the Activity of Ribonuclease in an Oleate Coacervate —K. B. Serebrovskaya and N. V. Vasil'eva	95	457
Synthesis of Adrenocorticotrophic Factor in a Cell-free System from Escherichia coli in Presence of Ribonucleic Acid from Beef Adenohypophysis—I. N. Todorov, L. N. Blok, and V. N. Vasil'chenko	98	461
Effects of Certain Narcotic Substances on Oxidative and Energy-Generating Processes in the Mitochondria of Dog Myocardium—I. N. Barkan and N. F. Mistakopulo	101	683
Malate Dehydrogenase of Aspergillus niger—A. S. Demina, V. I. Yakovleva, and V. L. Kretovich	105	687
Effect of the Magnesium Atom of the Pigment Molecule on the Spectral Properties of Aggregated Forms of Chlorophyll Analogs—A. A. Krasnovskii, M. I. Bystrova, and E. V. Pakshina	109	691
Incorporation of Amino Acids into Proteins in a Cell-free System Prepared from Bombyx mori L. Pupae—E. B. Kuvaeva, N. A. Gumilevskaya, L. V. Chumikina, and N. M. Sisakyan	113	695
Biosynthesis of Carnosine and Anserine in the Isolated Liver of Homeotherms —S. B. Lebedeva and A. N. Parshin	117	699
Chromatographic Separation of the Two Chlorophylls of Green Bacteria—V. É. Uspenskaya, E. N. Kondrat'eva, and N. K. Akulovich	120	702
Fractionation of the Pigments of Green Leaf Homogenates—A. A. Shlyk, L. I. Fradkin, R. A. Chkanikova, and L. K. Sukhover	121	706
Presence in Plants of an Aminopterin-Insensitive Pathway of Enzymic Reduction of Folic Acid to Its Coenzymic Form—N. A. Andreeva and R. I. Efimova	127	931
Role of Vitamin B_{12} in Synthesis of Active Forms of Folic Acid—L. Ya. Areshkina, E. P. Skorobogatova, and L. S. Kutseva	131	935
Synthesis of γ-Aminobutyric Acid in Brain Homogenates—Z. S. Gershenovich and E. Z. Emirbekov	133	937
Heterogeneity of the Histones of Wheat Embryo Deoxyribonucleoprotein—L. V. Gofshtein, V. I. Safonov, and N. M. Sisakyan	136	1168

Macromolecular Structure of the Deoxyribonucleoprotein of the Hematopoietic Tissue of Mice Exposed to Single or Repeated Fractional Doses of Gamma Radiation—N. A. Grigorovich 139 1171
A Cell-Free Preparation of Steroid 16 α-Hydroxylase from Actinomyces roseochromogenes ATCC 3347—É. A. Elin and Leonid M. Kogan 143 1175
Participation of Pea-Seedling Ferredoxin in Photoreduction of NADP—E. N. Mukhin and E. A. Akulova 145 1177
Changes in some of the Physicochemical Properties of a DNA Preparation during Prolonged Storage in Alcohol—N. V. Nikolaeva and L. P. Semenova 149 1181
Determination of the Anticholinesterase Activity of Phosphorus-Organic Inhibitors—A. P. Brestkin, I. L. Brik, and A. A. Sagal 152 1381
Autoradiographic Study of Reproduction of DNA in Sister Chromatids—A. B. Iordanskii, V. Yu. Urbakh, and E. D. Matyushina 156 1385
Microchromatographic Method of Separation of Adenine from Guanine Nucleotides on Ecteola Cellulose Columns—N. S. Panteleeva and Yu. S. Korotkin 161 1389
Systematization of the Codons of the Genetic Code—Yu. B. Rumer 165 1393
Study of the Synthesis of Nuclear Histones during the Process of Substrate Induction of Tyrosine: α-Ketoglutarate Transaminase of Rat Liver—R. I. Salganik, T. M. Morozova, and L. M. Gryaznova 167 1395

Volume 168, Numbers 1-6 May-June, 1966

Insensitivity of Human Blood Plasma Folate Reductase to Aminopterin—N. A. Andreeva, A. V. Sergeev, and R. I. Efimova 173 204
Non-identity of Olivin with the Aglycones of Chromomycin A_3, Mitramycin, and Antibiotic 3014—A. S. Mezentsev, E. B. Kruglyak, V. A. Tyutyukova, and M. G. Brazhnikova 176 207
Study of the Shape and Dimensions of Transport RNA Molecules by the Method of Small-Angle Scattering of X-rays—V. G. Tumanyan, N. G. Esipova, and L. L. Kiselev 180 211
Free and Bound Urea in the Brain—I. M. Agafonova, A. A. Krichevskaya, and Z. S. Gershenovich 184 456
Globulins of Phaseolus aureus (Roxb.) Pip. Seeds—V. V. Sayanova 187 459
Study of the Surfactant Properties of Yeast Alcohol Dehydrogenase by the Adsorption Polarography Method—G. B. Bistritskaite and I. D. Ivanov 191 694
Comparison of the Properties of DNA of the Mitochondria and the Nuclei of Liver Cells—T. B. Kazakova and K. A. Markosyan 194 697
Presence of α, ε-Diaminopimelic Decarboxylase in Pea Seedlings—A. I. Medvedev and V. L. Kretovich 198 701
Reduction of 2, 4-Dinitrophenylhydrazones of α-Keto Acids and of Some Aldehydo Acids in Presence of Boride Catalysts—N. S. Geiko, V. L. Kretovich, B. D. Polkovnikov, A. M. Taber, A. A. Balandin, and M. P. Tsenova 201 938
Participation of Precursor Proteins in the Synthesis of Specific Proteins—I. I. Ivanov, V. V. Rudakov, I. A. Baryshnikov, and A. G. Taranenko 205 942
Action of Hydrolytic Enzymes on the So-Called Pseudoterminal Groups of DNA—O. S. Kislina, I. I. Nikol'shaya, and T. I. Tikhonenko 207 944
On the Principle of Feedback Regulation of the Carbohydrate Metabolism—I. I. Ivanov, R. A. Zarembskii, V. I. Skorik, M. N. Farshatov, and Yu. I. Glebov 210 1199
Sulfhydryl Groups and the Transketolase Activity of Baker's Yeasts—G. A. Kochetkov and G. F. Lutovinova 213 1202
Incorporation of the 5-C-Atom of 4,5-Dioxovaleric Acid into Hypoxanthine and Inosinic Acid in the Pigeon Liver—R. A. Spryshkova and A. A. Poznaskaya 216 1205
Effects of Carbonyl Reagents on Vitamin B_{12} and Porphyrin Synthesis by Dormant Cells of Propionibacterium shermanii—V. Ya. Bykhovskii, N. I. Zaitseva, and G. V. Mantrova 219 1415

Engl./Russ.

Structure and Antileukemic Action in the Series of Substituted Phenols—N. P. Konovalova, G. N. Bogdanov, L. S. Vasil'eva, L. M. Dronova, A. A. Matveeva, and N. M. Émanuél . . 222 1419
Separation of L-Tyrosine: 2-Oxoglutarate Aminotransferases of the Rat Liver and Change in the Enzyme Fractions after the Administration of Hydrocortisone—F. B. Levin 225 1422

Volume 169, Numbers 1-6 July-August, 1966

Cobamide Composition of Aminopterin-Resistant "Folate Reductase"—L. Ya. Areshkina, L. S. Kutseva, and E. P. Skorobogatova. 231 227
Structure of the Complex of 9-Methyladenine with 1-Methyl-5-bromouracil—Yu. G. Baklagina, M. V. Vol'kenshtein, and Yu. D. Kondrashov 233 229
Decomposition of C^{14}-Nicotine in Relation to Protein Biosynthesis—G. S. Il'in. 236 232
Studies on Phosphatidopeptide Compounds Concerned in Protein Biosynthesis in Beam Lamellae and Chloroplasts—V. S. Chigirev, É. N. Bezinger, and N. M. Sisakyan. 240 237
Amino-Acid Composition of Alder, Bean, and Lupin Nodules—K. B. Aseeva, Z. G. Evstigneeva, and V. L. Kretovich 243 463
Effect of Inhibitors of DNA Synthesis on Chlorophyll Formation—T. G. Beridze, M. S. Odintsova, N. A. Cherkashina, and N. M. Sisakyan 246 466
Effect of Homologous and Heterologous Histones and Their Fractions on RNA Synthesis in Cells in Tissue Culture—A. G. Bukrinskaya, A. K. Gitel'man, O. Burduchea, and T. A. Asadullaev 249 469
Appearance of Pseudo-Pelger Leucocytes in Rats Following Administration of RNA Isolated from Leukemic Tissue—Z. A. Butenko 252 472
Isolation of 13S-Globulin from Buckwheat Seeds—L. N. Viktorova and V. O. Shpikiter 255 474
Physiological Significance of Hydrogen Peroxide in Aerobic Organisms—A. A. Gurevich and I. N. Trubachev. 257 476
Polarographic Examination of Reversible Oxidation of Chlorophyll and Its Derivatives—V. M. Kutyurin, V. P. Solov'ev, and V. I. Grigorovich 260 479
Effect of Protamine and Inosinic Acid on the Activity, Dimerization, and Crystallization of Rabbit-Muscle Phosphorylase—G. V. Silonova, N. P. Lisovskaya, and V. Ya. Pikhelgas. . 263 483
Kinetic Criteria of Applicability of Inhibitors of Free-Radical Processes to Radiobiology and Oncology—E. B. Burlakova, N. G. Khrapova, V. N. Shtol'ko, and N. M. Émanuél 266 688
Effect of the Phytochrome System on Pigment Formation in Carrot Tissue Culture—T. N. Godnev, N. K. Akulovich, K. I. Orlovskaya, and V. I. Domash 270 692
Photochemical Reaction of Chlorophylls with Thiourea and Oxygen—A. A. Krasnovskii and I. M. Sapozhnikova 273 695
Light Adaptation of the Mechanism of Photoreduction of NADP by Chloroplasts—E. N. Mukhin and E. A. Akulova. 277 699
Complexes of Polysaccharides with Oligoribonucleotides—A. N. Petrova and R. L. Filippova. . . . 281 703
Regulation by Ammonium Ions of Synthesis of Amination Enzymes In Bacillus brevis GB—S. V. Shestakov and V. D. Filippov 283 705
Dependence of Incorporation of P^{32} into the Mycelium of an Adenineless Neurospora crassa Mutant on the Adenine Concentration of the Medium and on the Presence of 8-Azaadenine—I. S. Kulaev and Kh. Urbanek. 286 958
Lipid Fractions of Wheat Stem Rust Uredospores—Yu. V. Peruanskii and N. G. Run'kovskaya 290 962
Electron Microscopy of the DNA of Bacteriophage 1ϕ7—B. P. Ulanov, B. N. Il'yashenko, and R. Yu. Tashpulatov. 293 965
Role of Xanthine in the Biosynthesis of Riboflavin in the Yeast Candida guilliermondii—G. M. Shavlovskii and E. M. Logvinenko. 296 967
Participation of Protoporphyrin and Hematin in the Biosynthesis of Phycocyanins—T. N. Godnev, R. M. Rotfarb, and V. N. Gvardiyan. 300 1191

Specific Inactivation of Aminoacyl-RNA Synthetase by means of Photochemical Oxidation —M. K. Kukhanova and L. L. Kiselev 304 1195
Ion-Exchange Chromatography of Transport RNA in a Concentration-Temperature Gradient —A. D. Mirzabekov, A. I. Krutilina, and A. A. Baev 308 1199
Fractionation on a Cellulose Anion-Exchanger of Irradiated DNA and of Irradiated Propyl Gallate-Protected DNA —N. V. Nikolaeva, L. P. Semenova, and K. E. Kruglyakova 312 1203
Study of Metallocomplexes of Photoreduced Forms of Porphyrins and Chlorins —A. M. Shul'ga, G. P. Gurinovich, and A. N. Sevchenko 315 1206
Kinetics of Synthesis of RNA in Animal Cells —N. G. Shuppe 318 1209
Dissociation of Enzymes and the Dependence of Specific Enzymatic Activity on the Initial Concentration —A. I. Agatova and B. I. Kurganov 321 1452
Activation by Glyoxylate of Some Pyridoxal-Dependent Enzymes — V. L. Kretovich, T. I. Karyakina, and N. V. Lyubimova 325 1456
Effect of Boron on the Contents of Low-Polymeric and High-Polymeric RNA, on the Nucleotide Composition of RNA, and on the Ribonuclease Activity of Cytoplasmic Structures of Sunflower Cells —N. D. Timashov 328 1459

Volume 170, Numbers 1-6 September-October, 1966

Possibility of Synthesis of Trilinolein in Plant Tissues by Dehydrogenation of Oleodilinolein —A. G. Vereshchagin and G. V. Novitskaya 333 202
Conformational Changes in Lactate Dehydrogenase Associated with Its Inhibition — D. S. Markovich, P. Zavodskii, and M. V. Vol'kenshtein 335 204
Sedimentation Properties of Ribosomes of Chloroplasts and of the Cytoplasm of Pea Seedlings — É. N. Svetailo, I. I. Filippovich, and N. M. Sisakyan 337 206
Mechanism of Stabilization by Proteins of Free Radicals of the Semiquinone Type — I. G. Kharitonenkov, V. V. Demin, and A. É. Kalmanson 340 209
Chromatographic Behavior of Lysozyme in a Chitin Column —I. A. Cherkasov, N. A. Kravchenko, and E. D. Kaverzneva 343 213
The Cuproprotein of Wheat Leaves —K. V. Pshenova, A. A. Mutuskin, and P.A. Kolesnikov 346 457
Application of Carbon-14 to the Study of Lutein Metabolism — V. S. Saakov 349 460
Possible Application of a Method Based on Dielectric Constant Measurement to the Study of Cytoplasmic Protein Structure and to the State of Water in Plant Leaves — N. V. Sedykh and L. P. Khokhlova 353 464
Changes in the Concentration, Proteinase, Esterase, and Amidase Activities of Trypsin during the Course of Its Autolysis — M. P. Chernikov and E. Ya. Stan 355 466
Specificity of Snake Venom Phosphodiesterase for Phosphodiester Bonds Formed by Minor Ribonucleotides —T. V. Venkstern 358 718
Phosphofructokinase and the Regulation of Glycolysis during Embryonic Development — L. S. Mil'man and Yu. G. Yurovitskii 360 721
An Antiphage and Antitumor Substance Secreted by Actinomyces globisporus Interacting Specifically with DNA — S. I. Denisova, T. F. Kuimova, G. P. Men'shkov, and N. A. Krasil'nikov 363 970
Study of the Phenylalanyl-sRNA Synthetases and the Phenylalanine sRNA's of Yeast and Insects —T. M. Ermokhina, M. L. Mekhanik, G. N. Zaitseva, and A. N. Belozerskii 366 974
Kinetic Characteristics of the Structural Transition of Phage T-2 DNA in Solution —Yu. M. Evdokimov and Ya. M. Varshavskii 370 1205
Effect of D- and DL-Cycloserine on the Transaminase Activity of Subcellular Fractions of Brain Tissue —G. Ya. Kivman and R. P. Porfir'eva 374 1209

	Engl.	Russ.
Succinic Semialdehyde – A Precursor of Glutamine in Plants – V. L. Kretovish, T. I. Karyakina, N. V. Lyubimova, and A. N. Neronova	377	1212
Inhibition by Imidazole Derivatives of Peroxidatic Oxidation of Endogenous Unsaturated Fatty Acids of Muscles – E. A. Neifakh	380	1216
Cooperative Nature of the Properties of Proteins and the Reactivity of Peptide Bonds – A. I. Shul'mina and P. V. Afanas'ev	383	1220

Volume 171, Numbers 1-6 November-December, 1966

Quantitative Estimation of Enzymic Activity when Inhibition of the Reaction Takes Place during Incubation – K. M. Bendetskii	387	212
Phosphorus-Organic Compounds of Penicillium chrysogenum, the Phosphorus of Which is Determined as Orthophosphate – I. S. Kulaev, L. A. Okorokov, Fen-Yui-Tsyan, and G. A. Kuritsina	391	473
Isolation and Examination of the Non-Heme Iron-Containing Protein of Azobacter vinelandii – V. A. Yakovlev, L. A. Syrtsova, and L. V. Vorob'ev	395	477
Peroxidase as a Component of Plant Oxidizing Systems – B. A. Rubin, T. M. Ivanova, and M. A. Davydova	399	736
Action Spectrum of Desepoxidation of Violaxanthin – D. I. Sapozhnikov, L. R. Kolotova, and Yu. E. Giller	402	740
Protective Action of Transport Ribonucleic Acid against Thermal Inactivation of Valyl-sRNA Synthetase – O. O. Favorova, V. V. Grechko, L. L. Kiselev, and N. K. Sakharova	404	742
Thermal Modification of Pancreatic Ribonuclease – T. A. Moskvitina and É. I. Budovskii	408	999
Inhibitory Effect of Borates on the Three-Stage Reaction of Hydrolysis of Unspecific Substrates by α-Chymotrypsin – I. V. Berezin, G. Ya. Kolomiitseva, A. V. Levashov, and K. Martinek	411	1213
Changes in the Amino-Acid Content of Grapes at Different Stages of Maturity – S. A. Marutyan	415	1217
Effect of Different Forms of Coenzyme on the Quaternary Structure of Succinylated Aspartate Transaminase – O. L. Polyanovskii and V. Ya. Pikhelgas	419	1221
The Hydrogenase and the Succinate Dehydrogenase of Azotobacter vinelandii and Their Relation to Nitrogen Fixation – V. A. Yakovlev and L. A. Levchenko	422	1224
INDEX		
Author Index, Volumes 166-171, 1966	429	
Tables of Contents, Volumes 166-171, 1966	432	

ARCHIVE